

CLAIMS

Please replace the existing set of Claims, with the following:

1. (Currently Amended). An electric harness fabricating apparatus (A) comprising:
 - wire reel out means (10) provided at a pressure welding apparatus (13) for pressure-welding a connector (C_e, C_p) to a wire (W) which is a constituent element of an electric harness (H) for reeling out the wire (W);
 - a supply amount detecting apparatus (29) provided at a wire supply apparatus (C) for supplying the wire (W) to the pressure welding apparatus (B) for detecting an amount of supplying the wire from the wire supply apparatus (C) to the pressure welding apparatus (B);
 - calculating means (21) for comparing the amount of reeling out the wire (W) reeled out by the wire reel out means (10) and a detected value detected by the supply amount detecting apparatus (29) and calculating a difference therebetween;
 - comparing means (21) for comparing the difference calculated by the calculating means (21) with a previously determined allowable range; and
 - wire reel out amount abnormality determining means (21) for determining that an actual amount of reeling out the wire (W) by the wire reel out means (10) is different from the rectified reel out amount when the difference exceeds the allowable range by a comparison by the comparing means (21) ;

wherein the supply amount detecting apparatus comprises a slit circular disk, having a light blocking portion and a light transmitting portion, and two photosensors, each photosensor having means for generating a steady optical path of light.

2. (Currently Amended). The electric harness fabricating apparatus of claim 1: of Claim 1, wherein the supply amount detecting apparatus (29) is an encoder (29) comprising: a slit circular disk (37) comprising a light blocking portion (40) and a transmitting portion (41); and two pieces of photosensors (42A, 42B).